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WATER SUPPLY OUTLOOK FOR WASHINGTON



U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE

Collaborating with

DEPARTMENT OF ECOLOGY STATE OF WASHINGTON

APR. 1, 1974

Data included in this report were obtained by the agencies named above in cooperation with Federal, State and private organizations listed inside the back cover of this report.

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

Cover Photo: Snow Surveyors near Ship Creek, Alaska snow course.

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, Western Regional Technical Service Center, Room 209, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	204 E. 5th. Ave., Room 217, Anchorage, Alaska 99501
Arizona	6029 Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P.O. Box 98, Bozeman, Montana 59715
Neva da	P. O. Box 4850, Reno Nevada 89505
Oregon	1218 S. W. Washington St., Portland, Oregon 97205
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82601

ENT of

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and tor British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia

WATER SUPPLY OUTLOOK FOR WASHINGTON

and FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

KENNETH E. GRANT

ADMINISTRATOR
SOIL CONSERVATION SERVICE
WASHINGTON, D.C.

Released by

GALEN S. BRIDGE

STATE CONSERVATIONIST SOIL CONSERVATION SERVICE SPOKANE, WASHINGTON

In Cooperation with

JOHN A. BIGGS

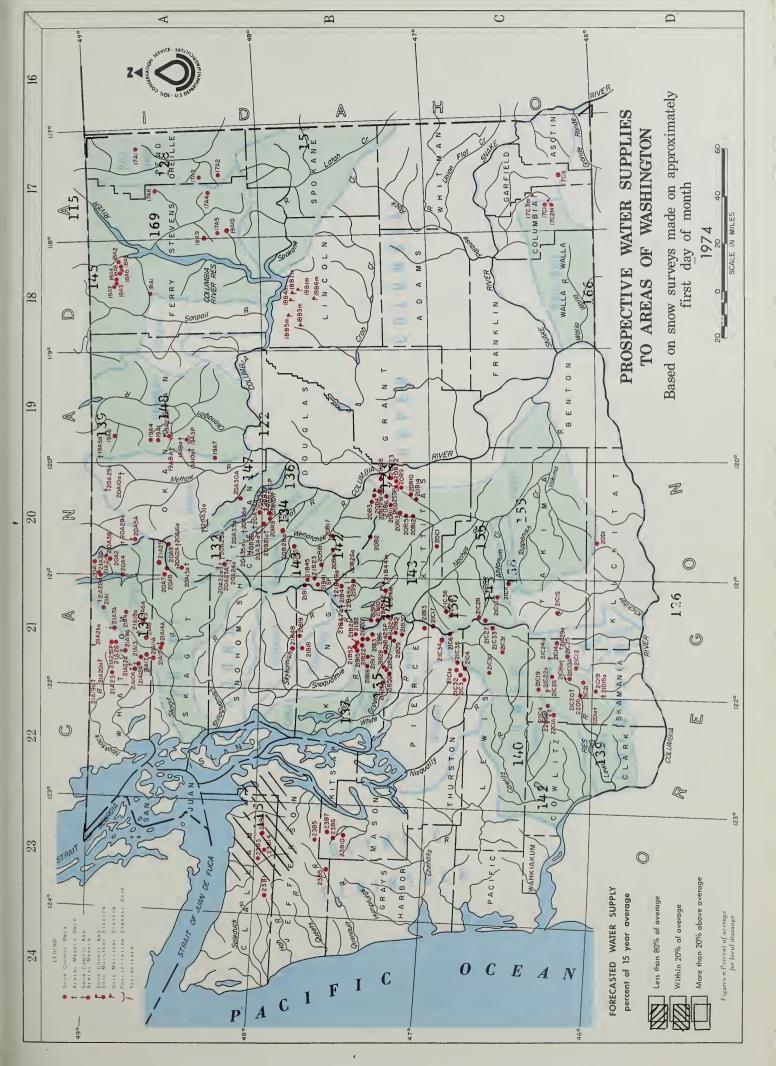
DIRECTOR
DEPARTMENT OF ECOLOGY
STATE OF WASHINGTON

Report prepared by

ROBERT T. DAVIS, Snow Survey Supervisor

SOIL CONSERVATION SERVICE 360 U.S. COURTHOUSE SPOKANE, WASHINGTON 99201





INDEX to WASHINGTON SNOW COURSES, SOIL MOISTURE STATIONS and PRECIPITATION STORAGE GAGES

Skagit River

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NUMBER SEC. TWP. RANGE ELEV.

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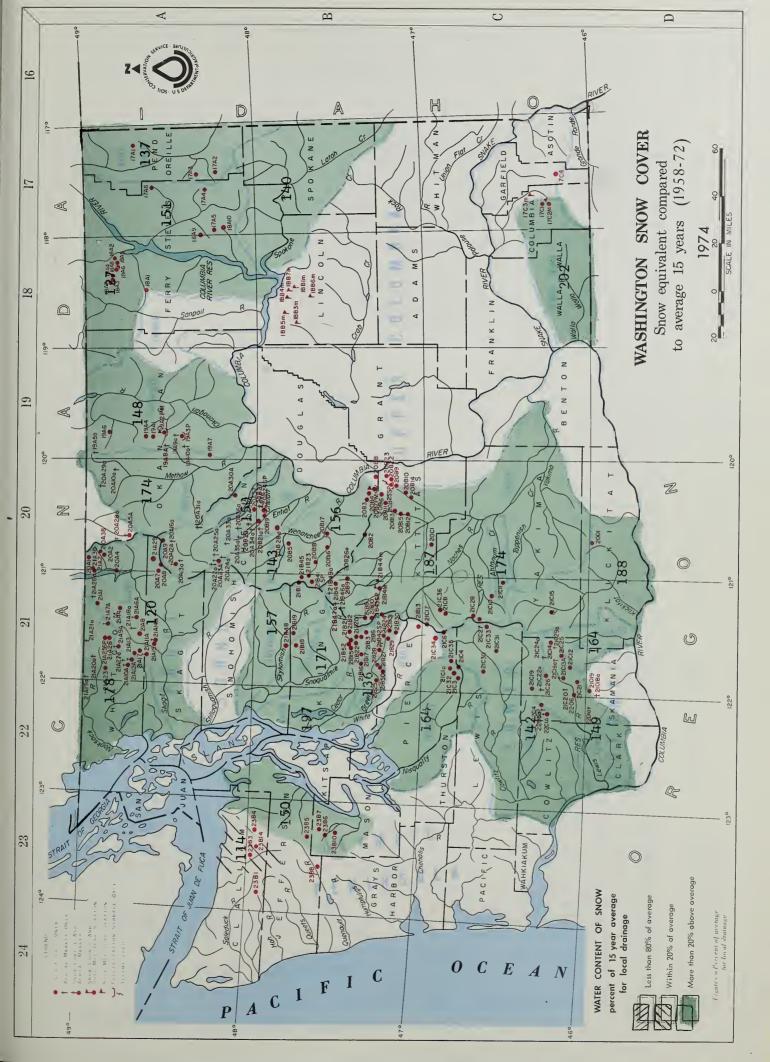
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INDEX to WASHINGTON SNOW COURSES, SOIL MOISTURE STATIONS and PRECIPITATION STORAGE GAGES

Skagit River

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2200 3680 6000 5900 3500 5000 5000 5000 2600 1900 2800 4200

NUMBER SEC. TWP. RANGE ELEV.

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Bald Mountain						
Watson Lakes						
Three Mile Creek						
.S. F. Thunder Creek						
Schreibers Meadow						
Mount	3250	8E	13N	3	21C30	
Marten Lake	4500	10E	10N	36	21C14	
Komo Kulshan	5900	11E	13N	11	21C33	
Jasper Pass	2870	10E	13N	21	21C31	
Easy Pass	2200	10E	1SN	28	21C32	
Dock	4100	7E	10N	33	21C19	
Baker Pass	5300	10E	16N	15	21C6	
				7	Cowlitz River	00
Thunder Basin	3000	6E	6N	36	21D18a	
New Hozomeen Lake	4200	9E	9N	20	21C24a	
Meadows Cabins	4250	38	7N	14	21C13A	
Lake Hozomeen	3400	7E	8N	16	21C20a	
Granite Creek	2100	6E	9N	29	22C4	
Freezeout Meadows	4400	SE	9N	35	22Cla	
Freezeout	3100	7E	6N	22	21019	
Freezeout Creek	2000	6E	8N	. 36	22C6	
Devils Park	3200	5E	8N	24	22C5a	
Brown Top	3800	7E	9N	00	21C26	
Beaver Pass	3500	9E	8N	28	21C25	
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State of Washington April 1, 1974

** As we reported last month, a serious situation could develop in ** ** the watersheds of the state of Washington. Above normal precipi- ** ** tation has occurred during the past month, both at lower eleva- ** ** tions in the form of rain and in the higher elevations in the ** ** form of snow. The potential for high water is more than there. ** ** High water will occur, but to the extent of the stage of the ** ** rivers and how far above flood stage they will go is strictly a ** ** function of the temperatures and precipitation in the upcoming ** ** months. We are going to have damaging flows on most of the ** ** streams in the state of Washington. Whether these streams exceed ** ** flood stage, as I said before, is relative to the weather. If we ** ** receive warm temperatures during the latter part of April and ** ** throughout May and the precipitation continues to be above nor- ** ** mal, high damage will occur, but the probabilities of both of ** ** these situations occurring are not too great. There is no ques- ** ** tion that an adequate water supply will be experienced in each ** ** and every watershed in the state. There is no question that all ** ** areas will have abundant water, the only question now is how ** ** much. As this report is being written, not all data is available. ** ** There have been storms during the last week in March and the ** ** first week in April that have prevented snow survey crews from ** ** completing their jobs in Cowlitz, Skagit and Baker River ** ** Watersheds. Data from these areas is vital to the proper opera- ** ** tion of reservoirs and the forecasting of water supplying. ** ** Estimates have been made, based on previous months readings, for ** ** this missing data and if conditions remain as they have for much ** ** longer, these estimates will be well below that which is ** ** evidently being measured. All forecasts made on April 1 have ** ** been increased as high as 20% from those which were made last ** ** month. The snow pack currently runs from a low of 14% above ** ** normal on the northern slopes of the Olympic Peninsula to a high ** ** of 102% above normal for the Mill Creek Drainage in southeastern ** River flows during the month varied from a high of ** ** Washington. ** 74% above normal to a low of 15% below. Precipitation during ** ** March was all above normal with the exception of the southeastern ** ** portion of the state. Precipitation records generally are ** ** obtained in the lower elevation valley portions by the National ** ** Weather Service in comparison to snow course records which are ** ** obtained at the higher portions of the watersheds. The reservoirs ** ** range both above and below normal for this time of year, but have ** ** little meaning to the total water supply picture. All reservoirs ** ** will fill and those that have great amounts of water are in the ** ** process of being lowered to control the expected high water of ** ** the spring runoff.



When comparing this years snow packs to that which was measured in 1972, we find a great discrepancy. The snow cover in 1972 was general. It was high at the high elevations and high at the low elevations. This year, any of the snow packs that normally we would expect in the lower elevation zones were washed out by the heavy, warm rains that occurred in November and December. has left a deficiency in the lower elevations, but at the higher elevations this precipitation occurred as snow and is still being measured by the field crews. In the Upper Columbia Basin, snow pack ranges from 27% above normal on the Kettle River, both in British Columbia and Washington, to a high of 87% above in the Yakima Drainage. Along the Lower Columbia, the snow pack ranges from a low of 42% above normal on the Cowlitz River to 102% above in the Mill Creek Drainage. The Puget Sound Drainage, in general, ranges from 20% above normal in the Skagit to 97% above in the The three snow courses measured in the Skagit Drainage Cedar. are all at low elevations. This is one of the areas where a good amount of missing data is occurring. This number, therefore, is somewhat misleading. On the Olympic Peninsula, the northern portion of the area has a snow cover that is only 14% above normal, but the Skokomish Drainage, southeast of Mount Olympus, has a snow cover that is 50% above normal.

RESERVOIRS

Franklin D. Roosevelt Lake reached its lowest elevation around the first of April. The amount of water in the reservoir is so small that the minus factor in useable capacity is larger than the normal figure on the plus range, i.e., -1,878,000 compared to +1,822,000. It is anknown to this office how long the reservoir will be maintained at this low elevation, but there is no question that there will be plenty of water coming down the Columbia in subsequent months to more than fill the evacuated Some of the other reservoirs in the state have less than normal amounts of water in storage and some have more, but management, in all cases, will be releasing water from these reservoirs to help alleviate the expected damage from the high spring runoff. Even the single purpose irrigation reservoirs operated by the Bureau of Reclamation for the irrigation desires in the Yakima Valley will be operated as flood control reservoirs until all assurance that the major high water is past.



PRECIPITATION

The well above normal rainfall which occurred in November and December is still the massive influence relating to the total winter precipitation reported by the National Weather Service. This winter precipitation ranges from 33% above normal in the central Washington area to 72% above normal in the Pend Oreille-Spokane Drainage Division. March precipitation ranges from 11% below normal in the Southeastern Drainage Division to a high of 46% above normal in the Pend Oreille-Spokane Division.

SOIL MOISTURE

Again, there has been very little change in the total soil moisture picture throughout the state. Where the stations are at the lower elevations, the soil mantle is getting wetter from a combination of snow melt and rainfall on the snow, but at the higher elevations, everything is still dormant and the soil mantle is remaining essentially the same as it has during the past several months.

STREAMFLOW

During the month of March, the Okanogan River, as measured at Tonasket, had the highest measured flow, but this, as previously explained, was the result of the evacuation of Okanogan Lake in anticipation of high inflows in that area. The Wenatchee River, as measured at Peshastin, had the lowest flow during the month, 15% below normal. Most of the other stations reported above normal runoff, but this is generally a result of the above normal valley precipitation which fell on bare ground and immediately ran off. The forecasts of streamflow have all been increased from 5% to 25% as a result of the above normal snowfall and precipitation in the several watersheds. The forecasts now range from 15% above normal for the Columbia River at Birchbank to a high of 55% above normal for the Yakima River, as measured near Parker. Numerical forecasts can be found immediately following this narrative statement.



STREAMFLOW FORECASTS - APRIL 1974

The following summarized runoff forecasts are based principally on mountain snow-cover and on the assumption that precipitation and temperature will be near average from the present time to the end of the forecast period. Appreciable deviations from normal of temperature and/or precipitation will correspondingly modify these forecasts. Streamflow figures for 1973 are preliminary and subject to revision.

			al Streamf	low in	Thousand	s of Acr	
Basin, Stream	Forecast	%	Fore-				15-Yr
and	Runoff	15-Yr.	Cast				Average
Station	1974	Avg.	period	1973	1972	1971	58-72
	COTIN	MBIA BASI	RT				
	COLUR	IDIA DASI	<u>Y2.</u>				
Columbia River System							
Columbia River	53200	115	Apr-Sep	34814	52590	48592	46430
at Birchbank $\frac{1}{2}$	43000	115	Apr-Jul	27879	42700	39462	37548
_	32700	119	Apr-Jun	20258	31000	29759	27549
Columbia River	84300	122	Apr-Sep	45834	83880	75360	68868
at Grand Coulee 1/	72600	124	Apr-Jul	38140	71820	64444	58379
	58000	126	Apr-Jun	29814	56200	51550	46060
Columbia River	93000	123	Apr-Sep	49262	98040	84965	75337
	79000	123	Apr-Jul	41312	84520	73096	64192
bl Rock Island Dam $\frac{1}{2}$	63200	125	Apr-Jun	32102	66100	58235	50604
	03230	1. de	mpr =oun	J 6- 2- V 6-	. 00100	30273	30004
Columbia River	132000	126	Apr-Sep	65012	134620	123427	104670
at The Dalles, Or 1/	114000	127	Apr-Jul	54150	117810	107702	89893
, <u> </u>	95000	130	Apr-Jun	43211	96290	88936	73158
PEND CREILLE RIVER SYSTEM							
Pend Oreille River	20500	128	Apr-Sep	7929	20294	19052	15953
bl. Box Canyon 1/	18700	127	Apr-Jul	7338	18724	17763	
bi. bek canyon 1/	16200	127	Apr-Jun	6507	16109	15357	12777
	10200	2, 4	upi oui	0,30,	1.01.07	13937	
KETTLE RIVER SYSTEM					0.000	001	1070
Kettle River	2710	145	Apr-Sep	1106	2289	2240	
nr. Laurier	2580	144	Apr-Jul	1079	2205	2177	1793
	2400	146	Apr-Jun	1010	1965	1927	1640

Observed flow corrected for storage in any of the following reservoirs which are above the station: Kootenay Lake, Hungry Horse, Flathead Lake, Pend Oreille Lake, F. D. Roosevelt Lake, Lake Chelan, Coeur d'Alene Lake, Brownlee, Noxon Reservoir and pumpage at F. D. Roosevelt Lake.



	_		al Streamf	low in	Thousands	of Acı	re-feet
Basin, Stream	Forecast	%	Fore-				15-Yr
and	Runoff	15-Yr.					Average
Station	1974	Avg.	period	1973	1972	1971	58-72
Kettle River System (Cont.)						
Colville River	250	169	Apr-Sep	54	114	170	148
at Kettle Falls	240	175	Apr-Jul	50	103	158	137
	215	168	Apr-Jun	48	94	146	128
Spokane River System*							
Spokane River	4500	151	Apr-Sep	1121	4000	3941	2983
at Post Falls ID 2/	4400	152	Apr-Jul	1074	3874	3798	2899
_	4200	151	Apr-Jun	1011	3644	3523	2773
Okanogan River System							
Similkameen River	2100	139	Apr-Sep	719	3162	1931	1517
nr. Nighthawk	1960	138	Apr-Jul	675	2998	1840	1424
	1710	140	Apr-Jun	600	2505	1576	1222
Okanogan River	2550	148	Apr-Sep	765	3852	2225	1723
nr. Tonasket	2310	146	Apr-Jul	707	3523	2077	1582
	1980	147	Apr-Jun	622	2895	1772	1349
Methow River System							
Methow River	1520	147	Apr-Sep	512	1959	1339	1031
nr. Pateros	1420	147	Apr-Jul	476	1819	1259	963
	1230	148	Apr-Jun	417	1524	1061	832
Chelan River System							
Chelan River	1700	136	Apr-Sep	777	1865	1550	1253
at Chelan <u>3</u> /	1530	138	Apr-Jul	680	1619	1352	1112
	1220	138	Apr-Jun	544	1250	1019	881
Stehekin River	1200	132	Apr=Sep	541	1235	1093	904
at Stehekin	1030	133	Apr-Jul	447	1044	927	776
	800	133	Apr-Jun	352	772	657	600
Entiat	320	134	Apr-Sep	NO.	398	310	239
nr. Ardenvoir	295	134	Apr-Jul	-	361	280	220
	240	133	Apr-Jun	can.	283	209	180

^{*} Forecasts made by Jack A. Wilson, Soil Conservation Service, Boise, Idaho

^{2/} Observed flow corrected for storage in Coeur d'Alene Lake and diversion by Rathdrum Prairie Canal.

^{3/} Observed flow corrected for storage in Lake Chelan.



		Season	al Stream	flow in '	Thousands	of Acr	e-Feet
Basin, Stream	Forecast	%	Fore-				15-Yr
and	Runoff	15-Yr.	cast			ž.	Average
Station	1974	Avg.	period	1973	1972	1971	58-72
Wenatchee River System							
Wenatchee River	1880	143	Apr-Sep	790	1926	1637	1312
at Plain	1700	143	Apr-Jul	709	1686	1448	1187
	1390	145	Apr-Jun	589	1272	1045	956
Wenatchee River	2540	142	Apr-Sep	1033	2787	2241	1786
at Peshastin	2330	143	Apr-Jul	938	2464	1999	1629
	1850	140	Apr-Jun	786	1883	1454	1324
Stemilt Basin	148 *	107	May-Sep	-	145*	148*	138*
nr. Wenatchee							
Yakima River System							
Yakima River	204	144	Apr-Sep	35	213	192	142
nr. Martin <u>4</u> /	190	145	Apr-Jul	78	192	179	131
	164	141	Apr-Jun	72	160	139	116
Yakima River	1380	143	Apr-Sep	555	1515	1305	965
at Cle Elum <u>5</u> /	1280	146	Apr-Jul	489	1374	1178	877
	1120	146	Apr-Jun	433	1156	936	764
Yakima River	2680	155	Apr-Sep	582	3231	2401	1730
nr. Parker <u>6</u> /	2650	156	Apr-Jul	590	3071	3627	1701
_	2400	152	Apr-Jun	598	2694	1961	1580
Kachess River	185	148	Apr-Sep	67	196	172	125
nr. Easton 7/	175	148	Apr-Jul	63	182	163	118
	155	146	Apr-Jun	59	153	130	106
Cle Elum River	680	143	Apr-Sep	280	750	627	477
nr. Roslyn 8/	630	144	Apr-Jul	254	673	568	437
	540	145	Apr-Jun	220	538	433	372

4/ Observed flow corrected for storage in Lake Keechelus.

^{*} Thousands of Miners' inches.

^{5/} Observed flow corrected for storage in Keechelus, Kachess and Cle Elum Lakes and diversion by Kittitas Canal.

^{6/} Observed flow corrected for storage in Keechelus, Kachess, Cle Elum, Bumping and Rimrock Lakes and diversions by Roza, Union Gap, New Reservation, Old Reservation and Sunnyside Canals.

^{7/} Observed flow corrected for storage in Lake Kachess.

^{8/} Observed flow corrected for storage in Lake Cle Elum.



			al Streamf	low in '	Thousands	of Acr	e-Feet
Basin, Stream	Forecast	%	Fore-				15-Yr
and	Runoff	15-Yr.	cast				Average
Station	1974	Avg.	period	1973	1972	1971	58 - 72
Yakima River System (Cont.							
Bumping River	220	150	Apr-Sep	74	234	193	146
nr. Nile <u>9</u> /	200	150	Apr-Jul	68	209	174	134
	160	143	Apr-Jun	61	156	124	112
American River	190	148	Apr-Sep	70	186	172	128
nr. Nile	175	148	Apr-Jul	65	169	154	118
	150	150	Apr-Jun	58	137	113	100
Tieton River	360	145	Apr-Sep	161	396	326	247
at Tieton Dam 10/	315	149	Apr-Jul	128	338	272	211
	255	148	Apr-Jun	102	261	198	172
Naches River	1340	151	Apr-Sep	442	1477	1168	889
nr. Naches 11/	1240	153	Apr-Jul	385	1339	1055	810
<u></u>	1060	152	Apr-Jun	336	1107	833	698
Ahtanum Creek	66	138	Apr-Sep	21	75	63	48
nr. Tampico 12/	63	143	Apr-Jul	18	69	57	44
ar. rampreo	54	138	Apr-Jun	16	59	48	39
Lower Columbia River Syste Mill Creek	<u>m</u>						
nr. Walla Walla	45	166	Apr-Sep	17	34	30	27
III. Walla Walla	40	166	Apr-Jul	13	29	26	24
	35	166	Apr-Jun	11	26	24	21
Lewis River	1870	139	Apr-Sep	773	1597	1827	1342
at Ariel 13/	1700	145	Apr-Jul	642	1392	1605	1174
00 ALICI <u>13</u> /	1500	143	Apr-Jun	556	1236	1341	1052
Cowlitz River	2950	140	Apr-Sep		3048	2800	2106
Blw. Mayfield Dam	2650	143	Apr-Jul	e 6	2672	2463	1846
Zin Pidylicia Dam	2200	139	Apr-Jun	œ	2201	1935	1478

^{9/} Observed flow corrected for storage in Bumping Lake.

^{10/} Observed flow corrected for storage in Rimrock Lake.

^{11/} Observed flow corrected for storage in Bumping and Rimrock Lakes and diversions by Tieton, Selah Valley, Wapatox Canals and City of Yakima.

^{12/} Observed flow of North and South Forks (combined)

^{13/} Observed flow corrected for storage in Lake Merwin, Yale and Swift Reservoirs.



		-	1 6.				
Resin Stroam	Forecast	Season %	al Streamf Fore-	low in T	housands:	of Acr	e-Feet 15-Yr
Basin, Stream and	Runoff	/o 15-Yr.					
Station	1974	Avg.		1973	1972	1971	Average 58-72
Station	17/4	r.v.g.	perrou	1773	17/2	19/1	30-12
Lower Columbia River System Cowlitz River	m (Cont.)						
at Castle Rock 14/	3930	142	Apr-Sep	1561	3819	3710	2768
at bastic Rock 147	3550	147	Apr-Jul	1344	3331	3253	2416
	2950	142	Apr-Jun	1168	2782	2585	2083
	2,50	Z72	pr. own	1,200	2,02	2303	2003
	OT VMDT	C PENINSU	TT A				
	OFINETO	LEMINO	Ta				
Dungeness River System							
Dungeness River	190	115	Apr-Sep	se	207	196	165
nr. Sequim	155	113	Apr-Jul	8	171	154	137
111. 30432	120	115	Apr-Jun	nc nc	127	105	104
	PUGE	T SOUND					
	4						
Skagit River System							
Skagit River	2940	130	Apr-Aug		3402	2775	2260
at Newhalem <u>15</u> /							
Cedar River System							
Cedar River	125	137	Apr-Sep		122	120	91
Cedar Falls			3-p. 2-p				, -
Green River System							
Green River							
Blw. Howard Hanson Dam	420	135	Apr-Sep	165	434	393	312

^{14/} Observed flow corrected for storage in Mayfield Reservoir.

^{15/} Observed flow corrected for storage in Diablo, Ross, and Gorge Reservoirs.



COMPARISON OF SNOW COVER WITH THAT OF PREVIOUS YEARS

The following tabulation of Washington stream basins presents the water content of the snow about April 1, 1974 as percent of the same date in 1973 and 1972 and average of record

average of fecolu	No. of	1974	1974 Snow Water Expressed				
Tributary Basin	Courses Average	1973	as percent of 1972	of 1958-72 Avg			
	morage		1, / (60	1750-72 1108			
	UPPER COL	UMBIA BASIN					
Pend Oreille	17	212	124	137			
Kettle	16	262	164	127			
Colville	3	290	248	151			
Spokane	16	311	110	140			
Okanogan	37	184	103	148			
Methow	8	228	123	174			
Chelan	7	215	89	150			
Entiat	10	233	99	143			
Wenatchee	10	377	92	156			
Yakima	20	306	106	187			
Ahtanum	2	113	171	174			
	LOWER	COLUMBIA					
Mill Creek	3	507	164	202			
Klickitat	3 1	æ	195	188			
White Salmon	2	363	116	164			
Lewis	16	462	125	149			
Cowlitz	4	272	91	142			
	PUGET	SOUND					
Nisqually	4	242	90	164			
Green	8	392	106	136			
Cedar	6	722	122	197			
Snoqualmie	2	368	123	171			
Skykomish	3	311	105	157			
Skagit	3 3	485	62	120			
Nooksack	5	208	110	178			
	OLYMPIC	PENINSULA					
Skokomish	4	216	134	1.50			
Elwha	ī	223	123	114			



RESERVOIR STORAGE - 1000 Acre Feet

BASIN OR		USABLE 1/			ıred (Apri	1)
STREAM	RESERVOIR	CAPACITY	1974	1973	1972	Normal*
		COLUMBIA				
Spokane	Coeur d'Alene Lake	225.1	263.5	83.9	335.2	174.1
Columbia	Franklin D. Roosevelt Lake	523 2. 0	-1878.4	1546.3	1242.4	1821.8
Columbia	Banks Lake	761.8	690.8	592.0	680.2	581.4
Okanogan	Conconully Reservoir	13.0	7.2	11.8	10.8	11.8
Okanogan	Salmon Lake	10.5	7.4	9.5	8.6	7.5
Chelan	Lake Chelan	676.1	157.0	121.4	199.5	179.3
		YAKIMA				
Yakima	Keechelus Lake	157.8	114.4	112.1	127.5	107.8
Kachess	Kachess Lake	239.0	122.1	196.8	215.3	190.2
Cle Elum	Lake Cle Elum	436.9	225.0	340.5	326.9	283.2
Bumping	Bumping Lake	33.7	5.8	11.7	9.1	11.4
Tieton	Rimrock Lake	198.0	151.2	160.8	145.1	141.7
		PUGET SOUND	2			
Skagit	Ross Reservoir	1202.0	785.7	734.2	833.0	386.1
Skagit	Diablo Reservoir	90.6	83.8	87.5	87.8	85.5
Skagit	Gorge Reservoir	9.8	8.2	8.4	7.8	9

^{1/} Based on Active Storage

^{* 15-}year Average 1958-1972



SOIL MOISTURE - APRIL Drainage Basin Profile Inches Soil Moisture Content Total Inches as of April 1 and Number Elev. Depth Capacity 1974 1973 1972 Station OKANOGAN 48 19A2M 4500 5.4 Salmon Meadows 3.7 3.0 3.7 Trout Creek 3-M 3600 48 7.3 4.2 3.7 5.6 YAKIMA Domery Flat 21B20m 2200 48 6.9 4.9 6.1 Lake Cle Elum 21B14M 2200 48 12.8 9.1 9.2 WALLA WALLA 48 9.4 Couse 17C3m 3650 11.1 10.2 10.5 Helmers 17C2M 4400 48 12.0 10.0 8.3 10.6 WENATCHEE 4400 48 12.7 12.3 11.4 12.4 Upper Wheeler 20B7M

		FALL SO	IL MOISTURE	3			
Drainage Basin			Profile	Inches			Content
and				Total		s as of	Oct. I
Station	Number	Elev.	Depth	Capacity	1973	1972	1971
OKANOGAN							
Salmon Meadows	19A02M	4500	48	5.4	2.6	2.8	2.7
Trout Creek	3 - M	3600	48	7.3.	2.8	3.3	3.3
<u>YAKIMA</u>							
Domery Flat	21B20m	2200	48	6.9	2.6	4.1	2.1
Lake Cle Elum	21B14M	2200	48	12.8	6.1	8.7	7.1
WALLA WALLA							
Couse	17C3m	3650	48	11.1	5.6	6.0	6.2
Helmers	17C2M	4400	48	12.0	7.6	7.7	8.2
WENATCHEE							
Upper Wheeler	20B7M	4400	48	12.7	6.0	5.7	6.5



 $\begin{array}{c} \text{PRECIPITATION } \underline{1}/\\ \\ \text{Division Averages and Departures} \end{array}$

Drainage	FALI		WINT	WINTER			
Divisions	Sept-Oct	1973 <u>2</u> /	Nov. 1973 - M	6173			
	Observed	Departure	Observed	Departure			
Columbia in Canada	5.14	+ 0.67	15.91	+ 3.16			
Pend Oreille - Spokane	4.28	- 0.20	32.17	+13.42			
Northeastern Washington	3.36	- 0.58	17.93	+ 6.82			
Southeastern Washington	3.71	+ 0.48	20.99	+ 7.52			
Central Washington	4.68	- 0.07	36.60	+ 9.07			
North Central Washington	3.44	+ 1.82	9.48	+ 2.76			
Northwest Slope Cascades	11.53	- 1.16	71.63	+19.40			
Southwest Slope Cascades	9.69	+ 1.01	57.29	+15.65			
Northeastern Washington		•	- Lower Spokane, Colville, Sanpoil and Lower Kettle Drainages.				
Southeastern Washington		- Touchet, Tu	cannon and Palouse D	rainages.			
Central Washington		- Yakima, Wen	atchee and Chelan Dr	ainages.			
North Central Washington	North Central Washington - Methow and Okanogan Drainages.						
Northwest Slope Cascades	Northwest Slope Cascades - Puget Sound Drainages.						
Southwest Slope Cascades	Southwest Slope Cascades - Lower Columbia Drainages.						

^{1/ -} Preliminary analysis by National Weather Service from data furnished by Meteorlogical Services of Canada and the National Weather Service.

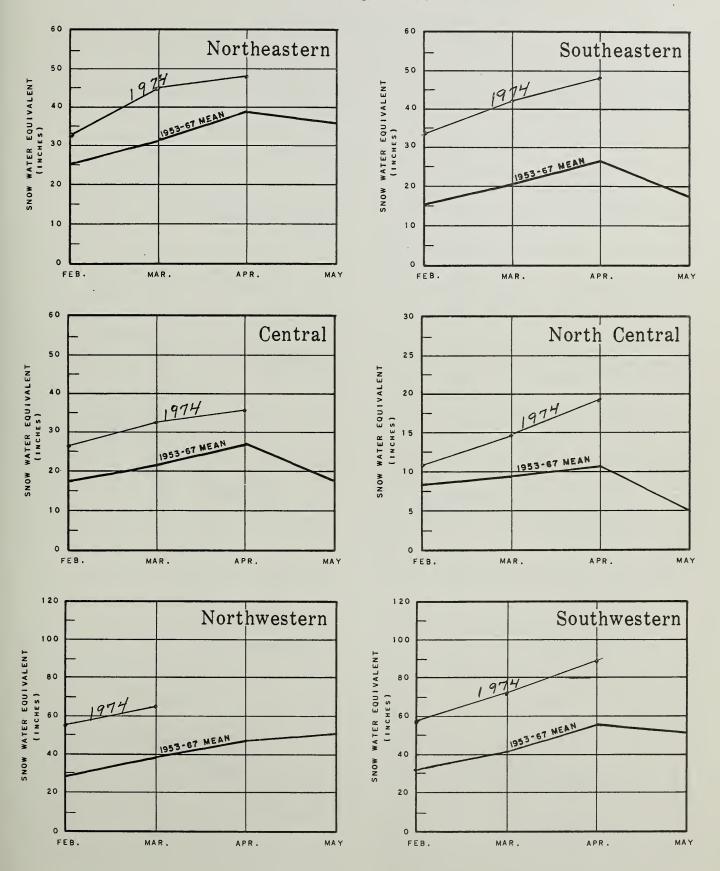
^{2/ -} Departure from 15-year (1958-72) drainage division average.



WASHINGTON SNOW COVER

1974

DRAINAGE AREAS

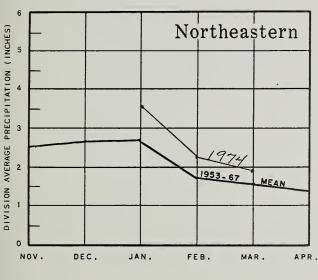


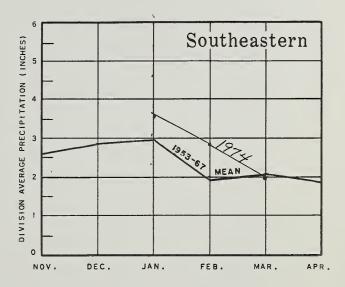


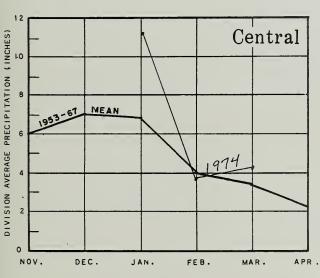
WASHINGTON VALLEY PRECIPITATION

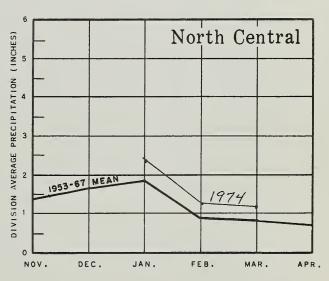
1974

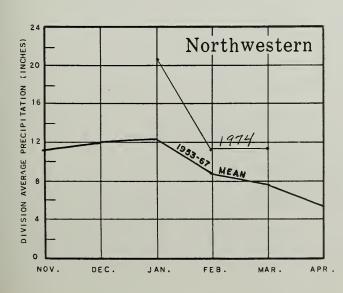
DRAINAGE AREAS

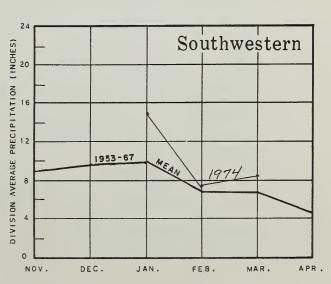












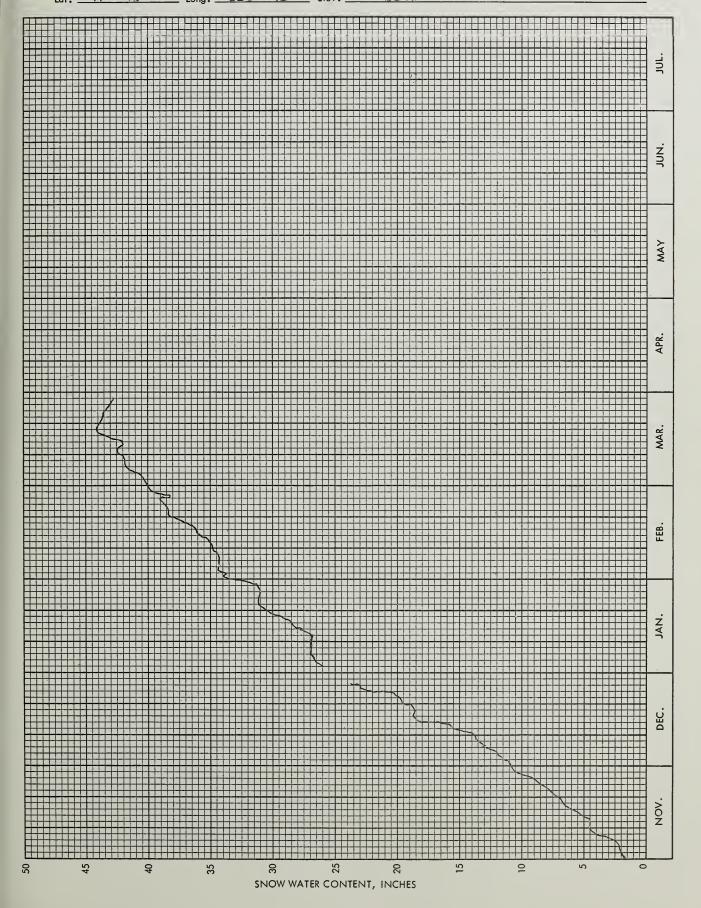


SNOW PILLOW DATA

AS OF __APRIL 1, 1974

Sec. 13 T. 26N R. 14E No. 21B41SP Drainage: Wesstchee R.

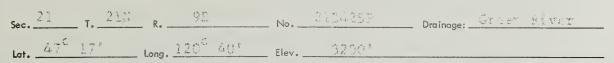
Lat. 47° 45' Long. 121° 42' Elev. 3240

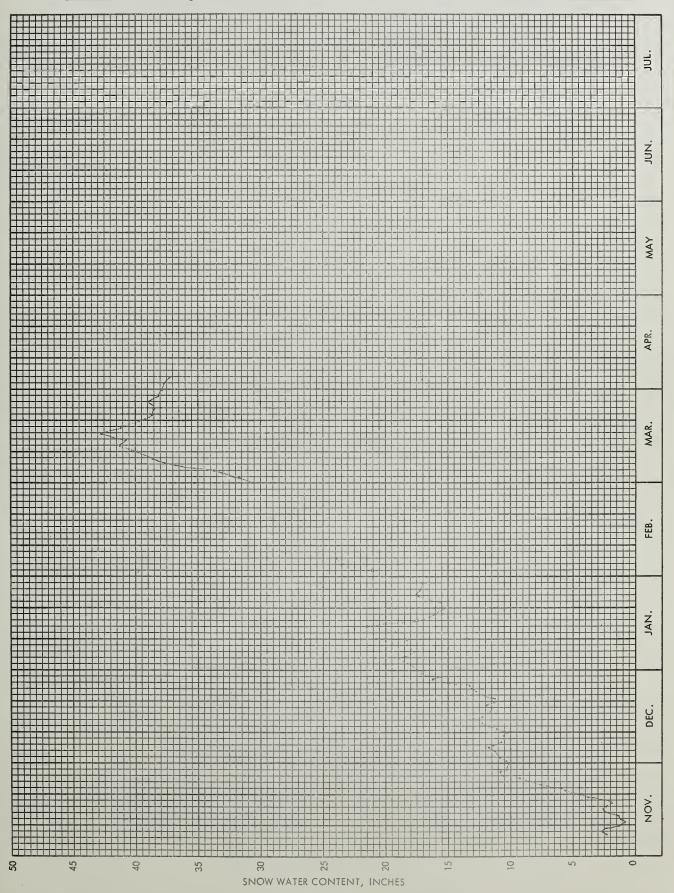


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SNOW PILLOW DATA

AS OF APRIL 1, 1975

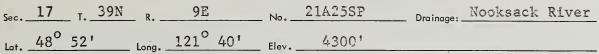


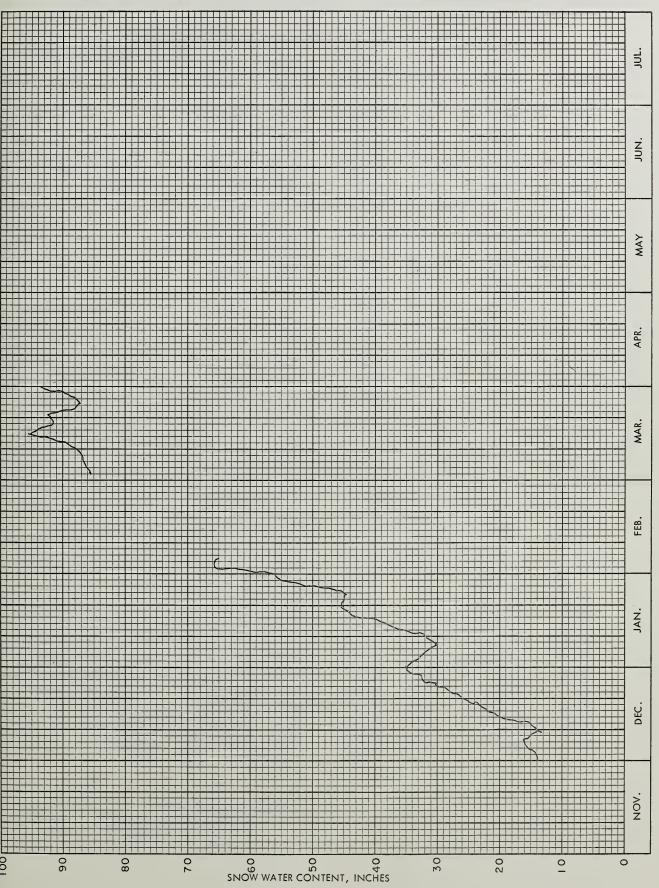




SNOW PILLOW DATA

AS OF __APRIL 1, 1974

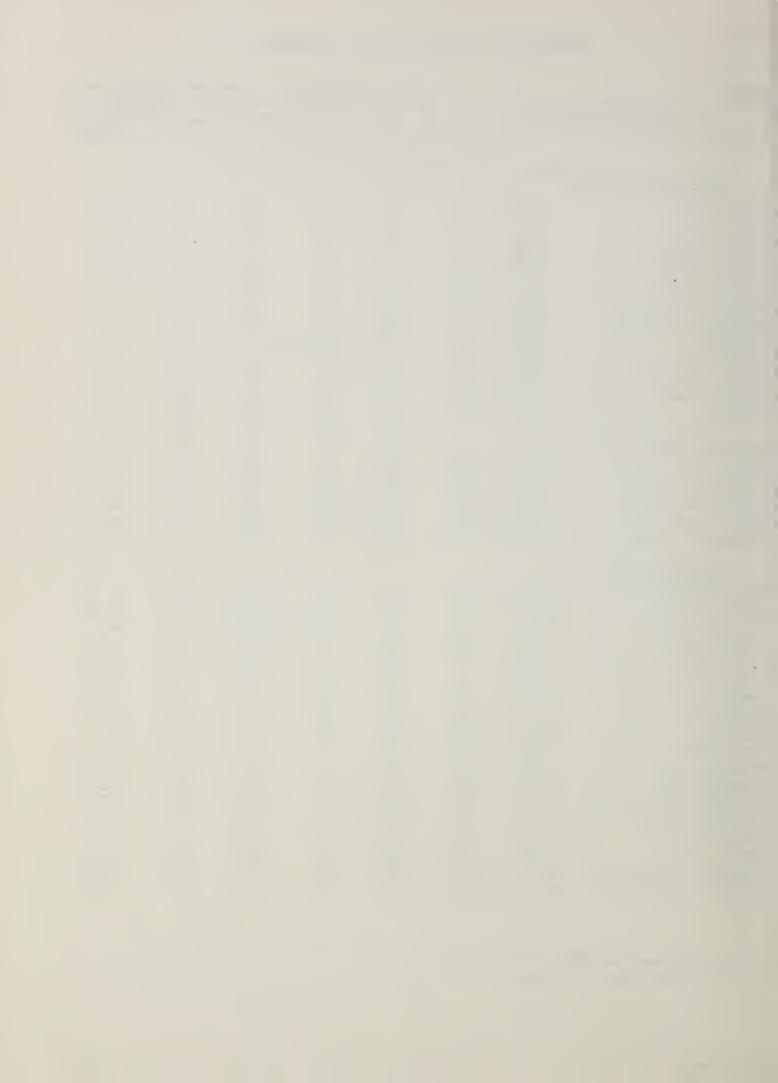






SNOW						THIS YEAR		PAST R		
DRAINAGE BASIN	and/or SNO	OW COURSE			Date	Snow Depth	Water Content	Water Conte	Water Content (Inches)	
NAME		Numbe	er E	Elevation	of Survey	(Inches)	(Inches)	Last Year	Average #	
	UPP	ER	c o	ī. II	MBIA	DRAT	NAGE			
PEND OREILLE								•		
Baree Creek		15B11	L 5.	500	4/2	180	75.0	31.1	49.4	
Baree Midway		15B16		600	4/1	131	54.1	24.4	37.7	
Baree Trail		15B15		800	4/2	40	15.4	0.0	9.6	
Benton Meadow		16A02		344	3/27	8	2.4	0.0	3.4	
Benton Spring		16A03		900	4/2	85	32.1	14.4	19.4	
Boyer Mountain		17A02		250	3/29	101	41.6	22.4	27.9	
Brush Creek Timber		14A13		000	3/27	39	13.0	8.1		
Bunchgrass Meadow		17A01		000	3/29	110	46.2	28.0	31.4	
Chewelah		17A04		923	4/1	Plowed		13.2	18.5	
Heart Lake Trail		14C10		800	3/27	81	33.0	9.2	23.4	
Hoodoo Basin		15C10		000	3/27	164	73.6	35.4	53.8	
Hoodoo Creek		15C01		900	3/27	154	67.7	33.4	50.3	
Lookout		15B02		250	3/14	140	48.2	20.0	35.6	
					3/27	122	47.1	20.8	38.7	
Mosquito Ridge		16A04A	A 5	100	3/25	134	57.6	28.0	40.3	
Nelson		19-Car		050	3/29	63	20.8	12.4	15.7	
Schweitzer Bowl		16A06		500	3/27	108	45.3	21.8	31.7	
Schweitzer Ridge		16A05		100	3/27	148	66.0	35.5	48.3	
Smith Creek		16A01		800	3/29	170	70.5	36.9	48.5	
Winchester Creek		17A03		970	3/29	42	13.2	5.6	11.8	
KETTLE RIVER										
Barnes Creek		90-Car	a 5	300	3/29	67	23.6	16.7	21.2	
Big White Mtn.		154-Car		500	3/31	76	30.0	18.4	19.8	
Bluejoint Mtn.		244-Car		500	4/1	Not Me	easured	-	New	
Boulder Road		18A02		450	3/29	4	1.6	0.0	2.6	
Butte Creek		18A03		070	3/29	42	14.3	7.0	10.1	
Cabin Creek		18A08		170	3/29	33	10.8	5.0	9.2	
Carmi		126-Car		100	3/31	28	8.6	5.6	6.3	
Farron # 1		17-Car			3/27		18.8	12.7	13.4	
Farron # 2		243-Car			3/27	53	18.9	11.5	New	
Goat Creek		18A04		595	3/29		8.9	2.8	6.0	
Graystoke Lake		5-Car		950	3/27	71	28.5	18.6	23.1	
Monashee Pass		48A-Car		500	3/29	44	15.8	11.6	14.1	
Old Glory Mountain		42-Car		000	3/29	126	48.6	29.5	28.3	
Snow Caps Creek		18A05		150	3/29	6	1.8	0.0	2.3	
Snow Caps Trail		18A06		720	3/29	19	5.9	0.6	5.7	
Summit G. S.		18A07		600	3/29	33	10.4	6.8	8.6	
Trapping Creek Low	er	166-Car		050	3/31	19	5.4	0.8	3.3	
Trapping Creek Upp		165-Car		450	3/31	39	14.4	9.4	9.5	

[#] Average based on 1958-1972 average* Average for years of record



SNOW				THIS YEAR		PAST RECORD		
DRAINAGE BASIN and/or	SNOW COURSE		Date	Snow Depth	Water Content	Water Conte	ent (inches)	
NAME	Number	Elevation	of Survey	(Inches)	(Inches)	Last Year	Average	
COLVILLE RIVER								
Baird	17A06	3215	3/29	26	9.3	2.3	5.7	
Carlson	18A09	2885	3/30	0	0.0	0.0	2.6	
Chewelah	17A04	4925	4/1	Plowed	Out	13.2	18.5	
Stranger Mountain	17A05	4990	3/30	58	22.6	11.0	14.6	
Togo	18A10	3370	3/30	47	17.0	6.5	12.5	
SPOKANE RIVER								
Above Burke	15B08	4100	3/27	83	31.3	10.6	25.6	
Above Roland	15B07	4350	3/25	114	50.2	16.5	35.8	
Below Roland	15B06	3770	3/25	52	21.8	3.1	17.4	
Copper Ridge	16B02	4800	3/26	97	41.6	11.5	30.0	
Forty-nine Meadows	15303	5000	4/4	119	41.8	17.5	34.9	
Fourth of July Summit	16B03	3100	3/14	45	14.4	2.6	9.3	
			3/25	37	14.2	0.0	7.8	
Granite Peak	15B13A	6000	4/4	174	59.0	31.7	47.5	
Kellogg Peak	16B05A	5560	3/25	124	52.9	18.9	34.7	
Lookout	15B02	5250	3/14	140	48.2	20.0	35.6	
			3/27	122	47.1	20.8	38.7	
Lost Lake	15B14A	6000	4/4	282	89.2	36.9	62.1	
Lower Sands Creek	16801	3400	3/26	82	31.2	8.4	20.7	
Medicine Ridge	15B04A	6150	4/4	134	60.6	30.2	48.1	
Mosquito Ridge	16A04A	5110	3/25	134	57.6	28.0	40.3	
Roland Summit	15B05A	5200	3/25	139	59.5	21.5	39.2	
Sherwin	16C01	3200	3/26	59	22.7	4.4	13.8	
Sunset	15B09A	5600	3/25	126	52.0	20.7	39.3	
SANPOIL RIVER	1000 f	5050	2/02	60	0/ 0	10.0	15.5	
Sherman Creek Pass	18A01	5350	3/29	69	24.3	12.8	15.5	
OKANOGAN RIVER	6 A = C	4200	1. 19	2 %	6 0	e /.	(1 de	
Aberdeen Lake	6A-Can	4300	4/1	25	6.8	5.4	6.1*	
Blackwall Peak	100-Can	6250	4/1	121	49.3	25.2	35.3*	
Bouleau Creek	31-Can	5000	4/1	48	14.8	9.9	12.0*	
Bouleau Lake Brenda Mine	234-Can	4580	4/1	60	18.3	12.7	16.3*	
	193-Can	4800	3/29	53	19.3	11.8	14.0*	
Brookmere	27-Can	3200	3/31	34	11.2	5.2	9.8*	
Carrs Landing Upper	168-Can	3200	3/29	12	4.1	0.0	3.2*	
Clark +	19A08a	7000	4/2	114	42.2	24. 6	23.3	
Enderby	130-Can	6250	3/29	125	50.2	34.6	38.9*	
Esperon Creek Lower	164-Can	4400	3/31	51.	18.1	10.5	12.9*	
Esperon Creek Middle	163-Can	4700	3/31	62	23.9	14.1	15.9*	
Esperon Creek Upper	162-Can	5400	3/31	78	31.7	14.6	19.5*	

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SNOW			THIS YEAR			PAST RECORD		
DRAINAGE BASIN and/or S	NOW COURSE		Date	Snow Depth	Water Content	Water Conte	nt (inches)	
NAME	Number	Elevation	of Survey	(Inches)	(Inches)	Last Year	Average#	
OKANOGAN RIVER (Co	ont.)							
Freezeout Meadows New	20A38	5000	4/1	Late R	eport	23.7		
Graystoke Lake	5-Can	5950	3/27	71	28.5	18.6	23.1	
Hamilton Hill	107-Can	4900	3/29	53	16.5	11.4	16.0*	
Harts Pass	20A05A	6500	4/1	Late R		33.3	46.4	
Horseshoe Basin +	19A05a	7000	4/2	72	26.6	16.1	13.5	
Isintok Lake	152-Can	5510	3/30	40	13.4	6.9	8.1*	
Lost Horse Mountain	105-Can	6300	4/1	44	12.6	8.2	9.1*	
Loup Loup	19A07	4650	3/29	47	17.3	6.0	9.3	
McCulloch	4-Can	4200	3/31	32	9.8	5.7	6.7*	
Missezula Mountain	106-Can	5100	3/28	44	11.3	9.0	8.4*	
Missezura Mountain Mission Creek	5A-Can	6000	3/20	80	29.8	17.5	20.0*	
			3/27				14.1*	
Monashee Pass	48A-Can	4500	•	44	15.8	11.6		
Mount Kobau	156-Can	5950	4/1	63	23.7	10.0	13.6*	
Muckamuck +	19A09a	6390	4/2	83	30.7	51 6	17.8	
Mutton Creek No. 1	19A01	5700	3/27	72	28.4	11.5	14.2	
Mutton Creek No. 2	19A04	6000	3/27	71	26.8	11.9	15.4	
Mutton Creek No. 2 SP	19A11SP	6000	3/27		22.6	8.6	New	
New Copper Mountain	46A-Can	4300	4/1	Late R		3.8	5.3*	
New Penticton Res. # 2		5225	3/28	44	13.0	6.9	8.8*	
Nickel Plate Mtn.	47-Can	6200	3/30	36	12.3	5.5	7.9*	
Dyama Lake	203-Can	4400	3/31	31	9.1	6.1	7.5*	
Paysayten +	20A28a	4300	4/2	55	20.4	10.5	16.0	
Postill Lake	55-Can	4500	3/29	37	13.7	8.6	8.9*	
Quartette Lake	34-Can	4000	3/27	48	12.9	7.9	15.1*	
Rusty Creek	19A03	4000	3/26	39	13.4	4.5	7.0	
Salmon Meadows	19A02	4500	3/27	53	18.7	7.7	10.3	
Silver Star Mountain	99-Can	6050	3/30	108	43.9	26.9	27.7*	
Summerland Reservoir	3A-Can	4200	3/31	37	12.6	7.7	9.3*	
Fouts Coulee	19A06	2345	3/28	9	2.9	0.0	1.1	
	3-Can							
Vasseux Creek	233-Can	4600	3/31	32	8.6	4.6	7.7%	
White Rocks Mountain	70-Can	6000	3/28	98	40.2	23.6	22.9*	
TAMETAM DITTE								
ENTIAT RIVER	20022-	E 7. O E	1.10	120	57 0	20 1	Morr	
Blue Creek G. S.		5425			57.8		New	
Brief	20319			0			4.0	
Entiat Meadows +	20A338	4800	4/6	174				
Entiat River Trail +	20A34a 20B27a	3130	4/2	/6		8.6		
Four Mile Ridge +	20827a	7000	4/2	124		23.4	~ O O	
-	20A36a			182				
	20B20		3/27	74	28.3	9.3	16.9	
Pope Ridge SP					m	0.00	2.7	
Pugh Ridge +	20A32a	6400	4/2	141	58.7	27.3	39.6	

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SNOW			(THIS YEAR		PAST R	ECORD
DRAINAGE BASIN and/or S	NOW COURSE		Date	Snow Depth	Water Content	Water Cont	ent (inches)
NAME	Number	Elevation	of Survey	(Inches)	(Inches)	21.3 25.4 15.6 23.8 33.3 16.1 6.0 11.5 11.9 8.6 4.5 7.7 29.4 35.0 17.1 35.7 43.3 31.6 30.8 21.5 29.4	Average
ENTIAT RIVER (Con	.						
Shady Pass	20A37	6200	3/28	108	45.1	21.3	CNE
Snow Brushy +	20A35a	3850	4/2	127	52.8		40.9
Tommy Creek +	20B21a	5300	4/2	94	39.1		27.1
METHOW RIVER							
Billy Goat Pass +	20A10a	6409	4/2	120	44.4	8	32.0
Dollar Watch +	20A29a	7000	4/2	108	40.0	23.8	29.3
Harts Pass	20A05A	6500	4/1	Late R	eport	33.3	46.4
Horseshoe Basin +	19A05a	7000	4/2	72	26.6	16.1	13.5
Loup Loup	19A07	4650	3/29	47	17.3	6.0	9.3
Mutton Creek No. 1	19A01	5700	3/27	72	28.4	11.5	14.2
Mutton Creek No. 2	19A04	6000	3/27	71	25.8		15.4
Mutton Creek No. 2 SP	19A11SP	6000	3/27		22.6		New
Rusty Creek	19A03	4000	3/26	39	13.4		7.0
Salmon Meadows	19A02	4500	3/27	53	18.7		10.3
War Creek Pass +	20A31a	6500	4/2	153	56.6		43.5
CHELAN LAKE BASIN							
Cloudy Pass +	20A22a	6500	3/24	173	77.8	35.0	54.0
Greenwood Flat +	20A25a	3540	3/24	100	44.0		24.8
Little Meadows +	20A24a	5275	3/24	180	79.2		45.8
Lyman Lake	20A23A	5900	3/24	204	91.6		61.5
Park Creek Flat +	20A13a	2220	4/1	Not Me			34.3
Park Creek Ridge	20A12A	4600	3/31	1.60	61.6	31.6	46.1
Petersons +	20A16a	3730	4/1	Not Me			32.2
Rainy Pass	2CA09	4780	4/1	Late R		30.8	41.6
Safety Harbor	20A30A	6300	3/25	116	44.3		29.9
War Creek Pass +	20A31a	6500	4/2	153	56.6		43.5
WENATCHEE RIVER							
Berne-Mill Craek	21823	3170	3/28	103	43.0	16.8	27.6
Berne-Mill Creek New SI			3/28		42.2		23.3
Blewett Pass No. 2		4270	3/27		26.0		16.5
Chiwaukum G. S.		1810	3/28		15.9		10.5
Fish Lake		3371	3/27		50.6		35.1
Lake Wenatchee		1970	3/28	47	18.4		11.9
Leavenworth R. S.		1127	3/15	3	1.4		L L . J
beavenworth A. 5.	40020	1 1 ho 1	4/1	0	0.0		0.7
Lyman Lake	20A23A	5900	3/24		91.6		61.5
Merritt	20818	2140	•	55	22.4	4.1	14.9
Stevens Pass	21B01	4070	3/15		83.1		50.8
occyche rass	& LDVI L	7070	3/28		77.0		
Stevens Pass Sand Shed	217/5	3700	3/26		64.8		22.1
occacus Lass saud sued	4 LD4)	3700	3/28		60.8	20.3	ea ea
			2/20	LJL	00.0	20.0	

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SNOW				THIS YEAR		PAST RECORD		
DRAINAGE BASIN and/or S	NOW COURSE		Date	Snow Depth	Water Content	Water Conte		
NAME	Number	Elevation	of Survey	(Inches)	(Inches)	6.2 4.2 6.0 9.0 5.7 10.0 5.8 0.0 7.1 7.4 7.9 6.6 10.5 8.8 54.5 11.1 0.0 32.5 17.9 23.0 11.0 0.0 42.4 0.0 0.0 42.4 0.0 0.0 42.4 0.0 0.0 42.4 0.0 0.0 42.4 0.0 0.0 42.4 0.0 0.0	Average #	
SQUILCHUCK CREEK								
Beehive Springs	20803	4400	3/28	33	15.1	6.2	7.8	
Scout-A-Vista	20B04	3400	3/28	33	11.8		6.9	
STEMILT CREEK								
Jump-Off	20808	4450	3/26	36	12.8	6.0	8.0	
Stemilt Slide	20E06	5000	3/26	53	22.3		15.5	
Upper Wheeler	20807	4400	3/26	30	11.4		9.0	
nbber muester	20101	4400	J/ 20	JG	T. T. • 04	J 0 8	9.0	
COLOCKUM CREEK								
Colockum Creek Upper	20322	5300	3/27	49	20.3	10.0	a	
Colockum Creek Lower	20523	4300	3/27	38	13.5	5.8		
YAKIMA RIVER								
Ahtanum R. S.	21011	3100	3/26	22	10.6	0.0	5.2	
Big Boulder Creek	21B09	3200	3/27	82	39.0	7.1	18.0	
Blewett Pass No. 2	20802	4270	3/27	59	26.0	7.4	16.5	
Bumping Lake	21008	3450	3/15	81	27.9	7.9	16.9	
			4/1	72	28.2	6.6	16.2	
Bumping Lake New	21036	3400	3/15	93	34.6	10.5	21.4	
			4/1	84	36.2	8.8	20.7	
Cayuse Pass	21006	5300	4/1	Late R	leport	54.5	90.2	
Colockum Pass	20809	5370	3/26	65	23.6	11.1	17.4	
Cooke Creek	20810	4123	3/26	30	11.4		5.1	
Corral Pass	21B13	6000	4/1	Late R		32.5	42.0	
Fish Lake	21B04	3371	3/27	118	50.6		35.1	
Green Lake	21010	6000	4/2	120	52.0		36.2	
Grouse Camp	20B11	5385	3/22	69	25.3		17.1	
High Creek	20B12	2930	3/22	23	8.6	0.0	2.3	
Joe Lake	21B46a		3/25	230	98.9	42.4	80	
Lake Cle Elum	21B14M			35			7.8	
Lemah Creek +	21B47a	3327		150			=	
Manashtash	20001			20				
Morse Lake	21C17							
Nanum	20B13		3/22		13.9		8.2	
Olallie Meadows	21B02				Report			
Satus Pass	20D01		3/28					
Stampede Pass SP	21B10		4/2		61.1		43.4	
Trail Creek	20B14		3/26		0.0		0.1	
Tunnel Avenue	21508		3/14			9.2		
TOWNET WASSIGE	~ 1.000	27JU		84		8.2	24.1	
Van Epps Pass +	20B26a	5925					en en en	
Agu Thha 1822 1	200204	2762	3/63	1 8 0	and a map	30.4		

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SNOW				THIS YEAR		PAST RECORD	
DRAINAGE BASIN and/or S	NOW COURSE		Date	Snow Depth	Water Content	Water Conte	ent (inches)
NAME	Number	Elevation	of Survey	(Inches)	(Inches)	Last Year	Average #
YAKIMA RIVER (Con	The state of the s	2262	0.100				
Walters Flat	20B15	3360	3/22	32	10.6	0.0	5.3
Waptus Lake +	21B49a	3024	3/25	139	59.8	24.4	Ca.
White Pass (E. Side)	21C28	4500	3/18	105	39.7	11.1	24.7
			4/2	98	36.9	11.9	25.9
White Pass (L. Lake)	21C27	4500	3/28	104	44.9	14.4	31.1
AHTANUM CREEK							
Ahtanum R. S.	21C11	3100	3/26	22	10.6	0.0	5.2
Green Lake	21010	6000	4/2	120	52.0	23.0	36.2
Green make		0000	7/2	1. to C	<i>J</i>	23.0	30,2
	L O	WER	COLU	JMBIA	$ar{7}$		
4.0000000000000000000000000000000000000					-		
ASOTIN CREEK	5 7 00 /	*****	0 10 =	0.1	00 =	1/ 5	0.1
Spruce Springs	17C04	5700	3/25	94	39.5	14.2	26.6
MILL CREEK							
Homestead	17C01	4030	3/27	38	16.9	2.4	7.3
Martin Springs	17002	4400	3/27	62	25.7	5.2	14.2
Tollgate Tollgate	18D3M	5070	3/27	102	48.4	15.0	25.1
KLICKITAT RIVER							
Satus Pass	20D01	4030	3/28	44	16.2	0.0	8.6
	_						
WHITE SALMON RIVE Cultus Creek	R 21C12	4000	4/3	187	82.7	24.7	49.4
	21C13A	4250	3/31	199	87.3	22.3	53.9
Surprise Lakes	21013A	4430	3/31	199	01.3	66.3	23.7
WIND RIVER			- 4				
Old Man Pass	21D19	3100	3/30	73	32.9	4.4	19.7
LEWIS RIVER							
Blue Lake +	21C22a	4800	3/29	300	132.0	50.2	84.8
Bob's Trail	21C21	2200	3/29	55	24.2	0.0	15.1
Calamity Ridge +	22D01a	2500	3/29	12	5.5	0.0	5.6
Council Pass +	21C18a	4200	3/29	144	63.4	23.5	42.9
Cultus Creek	21C12	4000	4/3	187	82.7	24.7	49.4
Divide Meadow +	21C29a	5600	3/29	180	79.2	31.9	60.6
Grand Meadow	21C25	3500	3/31	98	44.1		27.7
Lone Pine Shelter	21026	3800	4/1		Report	21.4	
Marble Mountain +		3200	3/29		68.6	13.2	38.2
						22.6	44.9
Mosquito Meadows	21019	4100	4/1		Report		
New Muddy River	22006	2000	3/30	7	3.4	0.0	9.5

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DRAINAGE BASIN and/or	SNOW COURSE		Date	Snow Depth	Water Content	Water Conte	ent (inches)
NAME	Number	Elevation	of Survey	(Inches)	(Inches)	Last Year	Average 🏌
* ****** ******							
LEWIS RIVER (Con	21D19	3100	3/30	73	32.9	4.4	19.7
	22C01a		3/29	242			
Plains of Abraham +		2100	3/29	51	108.9	44.4	71.8
Smith Creek Road	22004		3/29	104	23.9	0.0	17.7
Spencer Meadow +	21C20a	3400			47.8	9.2	25.7
Surprise Lakes	21C13A	4250	3/31	199	87.3	22.3	53.9
Table Mountain +	21C24a	4200	3/29	176	77.4	28.0	48.8
Timbered Peak +	21D18a	3000	3/29	72	33.1	2.5	17.8
COWLITZ RIVER							
Cayuse Pass	21006	5300	4/1	Late E	Report	54.5	90.2
Mosquito Meadows	21019	4100	4/1	Late B		22.6	44.9
Ohanapecosh	21032	2200	4/1	Late F	•	0.0	15.7
Packwood Lake	21C31	2870	4/1	Late F	-	0.0	13.1
Pigtail Peak	21033	5900	3/28	194	84.0	37.8	64.7
Plains of Abraham +	22C01a	4400	3/29	242	108.9	44.4	71.8
Potato Hill	21014	4500	4/1	Late F		17.9	33.3
White Pass (E. Side)	21C28	4500	3/18	105	39.7	11.1	24.7
market rass (B. Brac)	2.0.0	7500	4/2	98	36.9	11.9	25.9
White Pass (L. Lake)	21027	4500	3/28	104	44.9	14.4	31.1
Willame Creek	21030	3250	4/1	Late F		13.8	31.4
	PUGET	sou	מ מא	RAIN	A G P		
	1 0 0 11		1, D D	21 2 1			
NISQUALLY RIVER							
Ghost Forest	21004	4550	3/27	154	71.3	25.7	48.0
Longmire	21003	2760	3/27	52	23.5	0.0	10.2
New Paradise Park	21G35	5500	3/27	215	108.3	48.6	74.1
Stem Glade	21001	5050	3/27	210	95.6	42.6	73.4
WHITE RIVER							
Cayuse Pass	21 C06	5300	4/1	Late E	Report	54.5	90.2
Corral Pass	21B13	6000	4/1	Late F	Report	32.5	42.0
Morse Lake	21017	5400	4/1	Late F	Report	42.8	61.8
GREEN RIVER							
Airstrip	21B24	1800	4/4	0	0.0	0.0	1.3
Charley Creek	21B25	1200	4/4	0	0.0	0.0	0.0
Cougar Mountain SP	21B42SP	3200	4/3	83	36.6	5.0	· · · ·
Grass Mtn. No. 2	21827	2900	4/4	96	41.7	10.7	24.4
Grass Mtn. No. 3	21B28	2100	4/4	3	1.5	0.0	4.4
Lester Creek	21B20 21B29	3100	4/4	98	40.2	12.7	27.0
Lynn Lake	21850	4000	4/4	109	51.7	10.7	47.0
Lynn Lake	21000	4600	4/4	102	210/	TO . 1	-

[#] Average based on 1958-72 average

USB4-SCS-PORTLAND, OREGON 1973-

⁺ Snow water equivalent estimated from aerial stadia observation

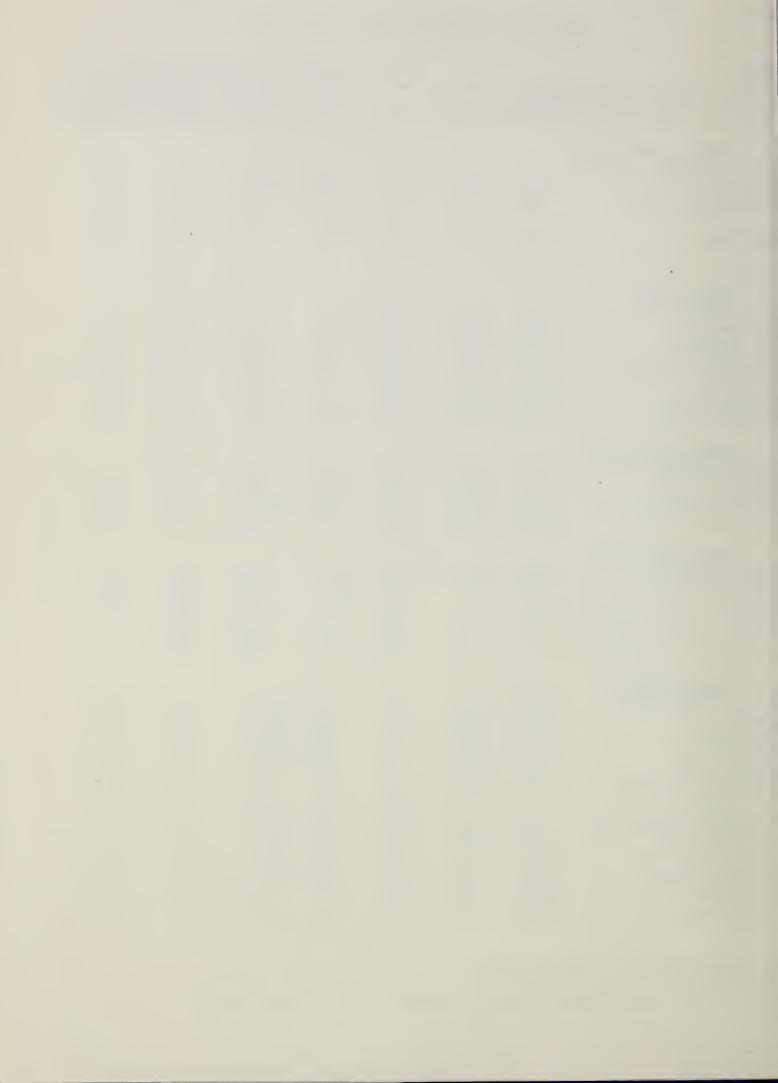


SNOW				THIS YEAR PAST RECOR		ECORD	
DRAINAGE BASIN and/or Si	NOW COURSE		Date	Snow Depth	Water Content	Water Conte	ent (inches)
NAME	Number	Elevation	of Survey	(Inches)	(Inches)	Last Year	Average
CDEEN DIVED (Comb	,						
GREEN RIVER (Cont	ئے۔ 21B31	4700	4/4	144	61.0	19.7	41.5
Sawmill Ridge			-				
Snowshoe Butte SP	21B43SP	5000	4/1	Late F	•	38.2	-
Stampede Pass SP	21B10	3860	3/15	195	66.8	26.0	41.2
			4/2	162	61.1	27.2	43.4
win Camp	21B30	4100	4/4	103	44.5	15.3	25.9
CEDAR RIVER							
ity Cabin	21B03	2390	3/27	69	31.8	3.0	15.5
It. Gardner	21B21	3300	3/29	69	33.5	0.0	18.0
It. Lindsay	21B16	2500	3/29	56	24.4	5.7	15.9
It. Washington New	21B52	3000	3/29	35	16.4	0.0	New Cou
Rex River	21B17	2400	3/29	75	33.2	4.8	13.5
. F. Cedar	21B06	3000	3/27	83	38.3	5.6	20.6
inkham Creek	21B20	3400	3/27	102	48.7	6.5	23.7
	21020	J+00	3/2/	102	70.1	0.5	25,1
SNOQUALMIE RIVER	0==10	0.700	2/22		00.0	0 = 0	
lpine Meadow	21B48	3500	3/28	162	82.0	25.9	
ake Elizabeth	21B19	2900	3/26	165	82.8	19.7	48.5
lallie Meadows	21B02	3625	4/1	Late H	•	19.6	48.8
. F. Tolt	21B18	1900	3/28	0	0.0	0.0	0.8
SKYKOMISH RIVER							
Lake Elizabeth	21B19	2900	3/26	165	82.8	19.7	48.5
tevens Pass	21B01	4070	3/15	201	83.1	34.0	50.8
			3/28	158	77.0	35.0	53.7
tevens Pass S. Shed	21B45	3700	3/15	162	64.8	20.3	•
			3/28	131	60.8	20.8	
SKAGIT RIVER							
Beaver Creek Trail	21A04		4/1	Late H	Report	3.6	12.6
Beaver Pass	21A01	3680	4/1	Late P	Report	19.0	33.7
brown Top	21A28a	6000	4/1	Late H	Report	50.0	
Cloudy Pass	20A22a	6500	4/1	Late I	•	35.0	54.0
evils Park	20A04	5900	4/1		Report	34.0	45.6
reezeout Cr. Trail	20A01	3500	3/8	68	21.7	8.6	11.8
			4/1	Late I		9.2	12.5
reezeout Meadows New	20A38	5000	4/1	Late I	•	23.7	29.9
Franite Creek	21A29	3500	4/1		Report	11.4	۵, ۶
larts Pass	20A05A	6500	4/1		Report	33.3	46.4
lozomeen Lake	21A02	2600	4/1		Report	3.1	9.0
desilkwa		3700	*	53	•	6.8	15.3*
	35B-Can		4/2		21.6		
Lyman Lake +	20A23A	5900	4/1	Late 1	Report	43.3	61.5

[#] Average based on 1958-72 average

^{*} Average for years of record

⁺ Snow water equivalent estimated from aerial stadia observation



SNOW				THIS YEAR		PAST R	ECORD
DRAINAGE BASIN and/o	r SNOW COURSE		Date	Snow Depth	Water Content	Water Conte	ent (inches)
NAME	Number	Elevation	of Survey	(Inches)	(Inches)	Last Year	Average #
SKAGIT RIVER (Co	ont)						
Meadow Cabins	20A08	1900	4/1	Late F	lenort	1.0	6.0
New Hozomeen Lake	21A30	2800	4/1	Late F	•	6.6	€
New Tashme	26A-Can	2500	4/1	36	14.6	1.5	10.8*
Quartette Lake	34-Can	4000	3/27	48	12.9		15.1*
Rainy Pass	20A09	4780	4/1	Late F		30.8	41.6
Thunder Basin	20A07	4200	4/1	Late F	•	15.5	23.9
BAKER RIVER							
Baker Pass +	21A27a	4900	3/7	288	109.0	cas ·	(2)
			4/1	Late E	Report	ws	um
Dock Butte	21A11A	3800	3/7	248	94.0	45.6	61.3
			3/15	246	103.0	•	74.3
			4/1	Late E	Report	56.2	71.3
Easy Pass	21A07A	5200	3/7	264	100.0	41.8	72.0
			3/15	272	101.0	-	79.1
			4/1	Late H	Report	61.7	87.0
Jasper Pass	21A06A	5400	3/7	292	111.0	60.0	81.6
·			3/15	292	122.0		83.5
			4/1	Late H	Report	69.4	99.0
Komo Kulshan	21A17	800	4/1	Late I	Report	0.0	6.0
Marten Lake	21A09A	3600	3/7	264	100.0	57.0	59.4
			3/15	268	112.0	6 0	72.0
			4/1	Late I	Report	59.8	78.1
Mount Blum +	21A18a	5800	3/7	198	75.0	47.5	58.2
			3/15	188	79.0	cus	æ
			4/1	Late I	•	•	=
Panorama New	21A26	4300	3/12	246	111.5		-
			3/28	223	112.0		eso
Rocky Creek	21A12A	2100	3/7	130	49.0	11.4	25.4
			3/15	124	52.0	7.9 30.8 15.5 45.6 56.2 41.8 61.7 60.0 69.4 0.0 57.0 59.8 47.5 - 55.1 59.3 11.4 16.9 27.4 47.2 0.0 0.0 2.2 0.0	28.7
			4/1	Late H		16.9	29.2
Schreibers Meadow	21A10A	3400	3/7				
			3/15				57.3
				Late E			
S. F. Thunder Creek	21A14A	2200	3/7		18.0		8.1
			3/15	46			9.4
			4/1		Report		5.3
Sulphur Creek	21A13			Late E	•		
Three Mile Creek	21A15			Late I			1.7
Watson Lakes	21A08A	4500	3/15		97.0		61.1
			4/1	Late H	Report	47.8	71.2

[#] Average based on 1958-72 average

^{*} Average for years of record

⁺ Snow water equivalent estimated from aerial stadia observation



SNOW	W			THIS YEAR		PAST RECORD	
DRAINAGE BASIN and/or S	NOW COURSE		Date	Snow Depth	Water Content	Water Conte	ent (inches)
NAME	Number	Elevation	of Survey	(Inches)	(Inches)	Last Year	Average
NOOKSACK RIVER							
Bald Mountain +	21A19a	4400	4/4	192	92.2	44.6	51.0
Canyon +	21A20a	5100	4/4	240	115.2	61.2	60.0
Glacier Creek	21A23	3700	3/28	97	43.2	15.1	23.4
Panorama New	21A26	4300	3/12	246	111.5	55.1	80
			3/28	223	112.0	59.3	63
Twin Lakes +	21A21a	5200	4./4	254	121.9	72.4	79.1
	OLYM	PTG	PENT	NSUL	A		
MORSE CREEK							
Cox Valley	23B14	4500	3/31	144	60.9	31.1	æ
•			·				
ELWHA RIVER							
Hurricane	23803	4500	3/30	91	36.8	16.5	26.1
SKOKOMISH RIVER							
Black & White	23E07	4200	4/3	167	69.5	32.2	45.6
Black & White Lakes	23B06	4700	4/3	208	95.0	52.3	65.8
Four Streams	23B10	3000	4/3	127	56.6	20.1	34.7
Home Sweet Home	23B05	5200	4/3	264	113.7	62.5	80.6
		F A (77)	nunonma				
		LATE	REPORIS				
WHITE RIVER							
Corral Pass	21B13	6000	4/6	153	63.7		
COLLUI 1522	21013	0000	₩/ U	100	00.7		
SNOQUALMIE RIVER							
Olallie Meadows	21B02	3625	4/5	184	89.1		
OLGENIE TICHGOWD	21302	0020	., 5		05.5		

[#] Average based on 1958-72 average

⁺ Snow water equivalent estimated from aerial stadia observation.



Agencies Assisting with Snow Surveys

GOVERNMENT AGENCIES

Canada:

Department of Lands, Forests and Water Resources, Water Resources Service, British Columbia

States:

Washington State Department of Ecology Washington State Department of Natural Resources

Federal:

Department of the Army
Corps of Engineers
U. S. Department of Agriculture
Forest Service
U. S. Department of Commerce
NOAA, National Weather Service
U. S. Department of the Interior
Bonneville Power Administration
Bureau of Reclamation
Geological Survey
National Park Service

PUBLIC AND PRIVATE UTILITIES

Chelan County P.U.D.
Pacific Power and Light Company
Puget Sound Power and Light Company
Washington Water Power Company

OTHER PUBLIC AGENCIES

Okanogan Irrigation District Wenatchee Heights Irrigation District

MUNICIPALITIES

City of Tacoma City of Seattle

Other organizations and individuals furnish valuable information for snow survey reports. Their cooperation is gratefully acknowledged.

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